

## CHAPTER TEN

# FRONT SUSPENSION AND STEERING

This chapter describes repair and maintenance of the front wheels, suspension arms and steering components.

Refer to **Table 1** for general front suspension and steering specifications. **Tables 2-5** list service specifications and torque specifications. **Tables 1-5** are located at the end of this chapter.

### WARNING

*Self-locking nuts are used to secure some of the front suspension components. Honda recommends that all self-locking nuts be discarded once they have been removed. The self-locking portion of the nut is weakened once the nut has been removed and will no longer properly lock onto the mating threads. Always install new self-locking nuts. Never reinstall a used nut once it has been removed.*

## FRONT WHEEL

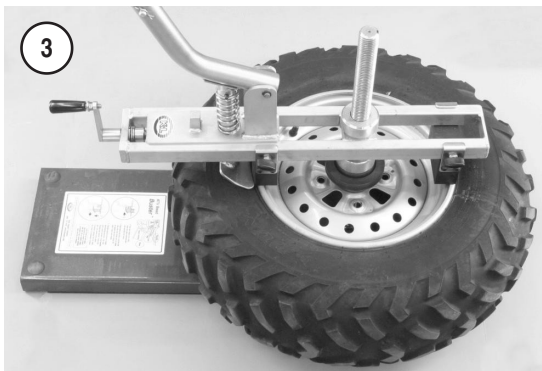
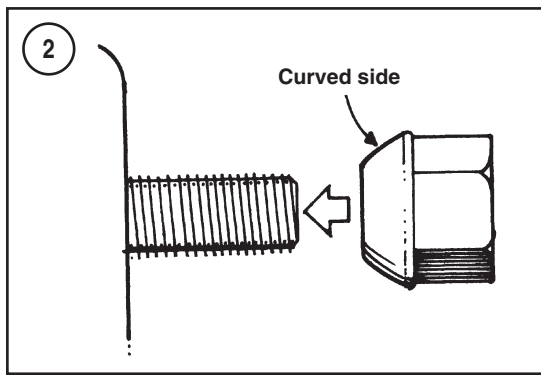
### Removal/Installation

1. Park the ATV on level ground and set the parking brake.

### NOTE

*Mark the tires for location and direction before removing them.*

2. Loosen the front wheel lug nuts (**Figure 1**).
3. Support the ATV with the front wheels off the ground.
4. Place wooden blocks(s) under the frame to support the vehicle securely with the front wheels off the ground.
5. Remove the wheel nuts and front wheel.
6. Inspect the nuts and replace them if they are damaged.



7. Inspect the wheels and replace them if they are damaged. Refer to the *Tires and Wheels* in this chapter.

8. Install the front wheel by reversing these removal steps, plus the following:

- a. Install the wheel nuts (**Figure 2**) with their curved side facing toward the wheel. First install the wheel nuts finger-tight and make sure the wheel sits squarely against the front hub.
- b. Lower the ATV so both front wheels are on the ground.

- c. Tighten the wheel nuts in a crossing pattern to a torque of 64 N•m (47 ft.-lb.).
- d. Support the ATV again so both front wheels are off the ground.
- e. Rotate the wheels and then apply the front brake. Repeat this step several times to make sure each wheel rotates freely and that its brake is working properly.

## TIRES AND WHEELS

The TRX350 is equipped with tubeless, low pressure tires designed specifically for off-road use. Rapid tire wear will occur if the ATV is ridden on paved surfaces.

### Tire Changing

A bead breaker tool, tire irons and rim protectors are required to change a tire. K & L Supply Co. (1-800-727-6767) offers a heavy-duty tire breakdown removal tool (**Figure 3**) that is available through motorcycle dealerships.

#### CAUTION

*If the tire is difficult to remove or install using the proper tools, do not take a chance on damaging the tire or rim sealing surface. Take the tire and rim to a dealership and have them service the tire.*

1. Remove the valve stem cap and core, and deflate the tire. Do not reinstall the core at this time.
2. Lubricate the tire bead and rim flanges with a rubber tire lubricant. Press the tire sidewall/bead down to allow the lubricant to run into and around the bead area. Also apply lubricant to the area where the bead breaker arm will contact the tire sidewall.
3. Position the wheel in the bead breaker tool (**Figure 4**).
4. Slowly work the bead breaker tool, making sure the tool arm seats against the inside of the rim, and break the tire bead away from the rim.
5. Apply hand pressure against the tire on either side of the tool to break the rest of the bead free from the rim.
6. If the rest of the tire bead cannot be broken loose, raise the tool, rotate the tire/rim assembly and repeat Steps 4 and 5 until the entire bead is broken loose from the rim.

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